



# THE WHITMAN COMPANIES, INC.

*Setting the Standard in  
Environmental Engineering & Management*

## FINAL REMEDIAL INVESTIGATION REPORT

FOR

ROCKAWAY BOROUGH WELL FIELD SITE  
OPERABLE UNIT #3  
FOR PROPERTY OF  
KLOCKNER & KLOCKNER  
ROCKAWAY BOROUGH, NEW JERSEY

VOLUME 12  
LABORATORY QA/QC DATA PACKAGE  
10/16/98 - JOB #I279GS

SUBMITTED TO  
USEPA-REGION II  
EMERGENCY & REMEDIAL RESPONSE DIVISION  
NEW YORK, NEW YORK

SUBMITTED BY  
THE WHITMAN COMPANIES, INC.  
ON BEHALF OF KLOCKNER & KLOCKNER

IN ACCORDANCE WITH  
ADMINISTRATIVE ORDER ON CONSENT  
INDEX NO. II-CERCLA-95-0104

306342

MAY 2004

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116 Tices Lane, Unit B-1, East Brunswick, NJ 08816  
[www.whitmanco.com](http://www.whitmanco.com)

# ENVIROTECH RESEARCH, INC.

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777 New Durham Road  
Edison, New Jersey 08817  
Tel: (732) 549-3900  
Fax: (732) 549-3679  
www.enviro-lab.com

December 2, 1998

The Whitman Companies, Inc.  
44 West Ferris Street  
East Brunswick, NJ 08816

Attention: Mr. Michael Metlitz

Re: Job No. I279GS - Klockner & Klockner

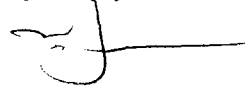
Dear Mr. Metlitz:

Enclosed are the results you requested for the following sample(s) received at our laboratory on October 16, 1998:

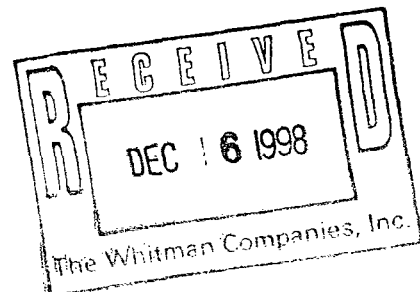
<u>Lab No.</u>	<u>Client ID</u>	<u>Analysis Required</u>
90835	SSGC-4_2-4	Grain Size
90836	SSGC-3_4.5-5	Grain Size
90837	SSGC-2_3-4	Grain Size

If you have any questions please contact your Project Manager, Robert McGrady, at (732) 549-3900.

Very truly yours,



Michael J. Urban  
Laboratory Manager



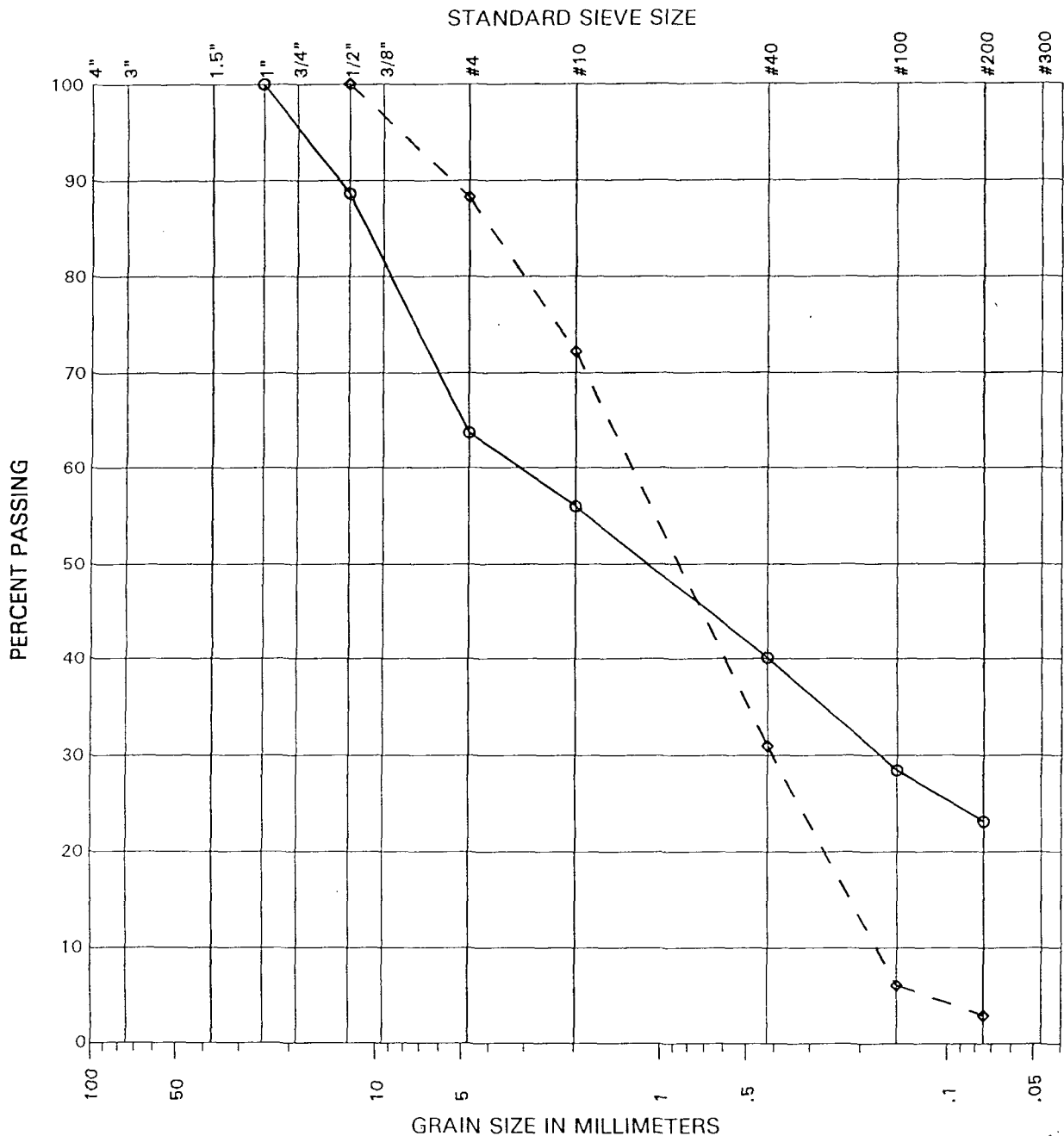
306343

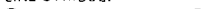

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# UNIFIED SOIL CLASSIFICATION

COBBLES & BOULDERS	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

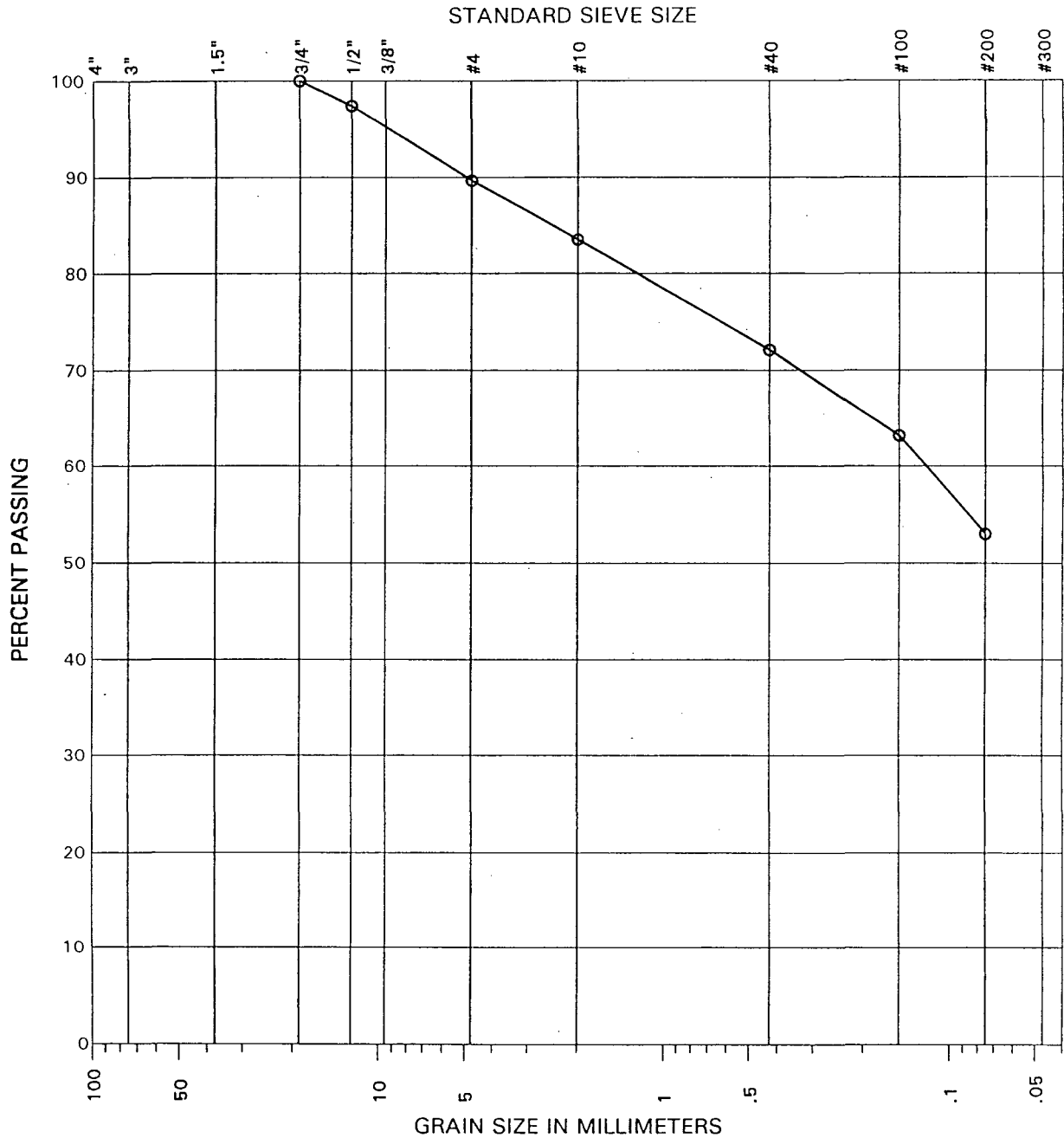


EXPLORATION/IDENTIFICATION: 1279-90835		DEPTH/SOURCE: 2'-4'			
LINE SYMBOL: 	MOISTURE CONTENT (%): 11.0	LIQUID LIMIT (%): ----	PLASTIC LIMIT (%): ----	USCS SYMBOL: SM	
USCS CLASSIFICATION: FINE TO COARSE SAND, AND GRAVEL, SOME SILT					
EXPLORATION/IDENTIFICATION: 1279-90836		DEPTH/SOURCE: 4.5'-5'			
LINE SYMBOL: 	MOISTURE CONTENT (%): 6.1	LIQUID LIMIT (%): ----	PLASTIC LIMIT (%): ----	USCS SYMBOL: SP	
USCS CLASSIFICATION: FINE TO COARSE SAND, LITTLE FINE GRAVEL, TRACE SILT					

## GRADATION CURVES

# UNIFIED SOIL CLASSIFICATION

COBBLES & BOULDERS	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	



EXPLORATION/IDENTIFICATION: 1279-90837		DEPTH/SOURCE:			
LINE SYMBOL: ○	MOISTURE CONTENT (%): 15.7	LIQUID LIMIT (%): ---	PLASTIC LIMIT (%): ---	USCS SYMBOL: ML	
USCS CLASSIFICATION: SILT, AND FINE TO COARSE SAND, LITTLE FINE GRAVEL					

GRADATION CURVE

306346

## CHAIN-OF-CUSTODY

PROJECT NAME: Klockner &amp; Klockner

SITE ADDRESS: Stickle Avenue &amp; Elm Street, Rockaway Borough, NJ

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PROJECT NO: 95-03-02

SAMPLE DATE: 10/16/98

LABORATORY: Envirotech Project #809002

SAMPLER(S): Cheryl L. Coffee

I279

SAMPLE TIME	SAMPLE LOCATION	SAMPLE ID#	SAMPLE DEPTH	SAMPLE MATRIX	ANALYSIS REQUESTED	PRESER- VATIVE	NO. OF CONT.	SPECIAL INSTRUCTIONS		
11:47	SS fence Area S633	SSFA-1	1.5-2'	soil	PHAL	90821	MEDH <sup>ice</sup>	2		
11:50	fence Area S633	SSFA-6A	1.5-2'	soil	PHAL	90822	MEDH <sup>ice</sup>	2		
11:45	fence Area S633	SSFA-1	10.5-11'	soil	PHAL	90823	MEDH <sup>ice</sup>	2		
1:10	Fence area SG333	SSFA-2	0.5-1'	soil	PHAL	90824	MEDH <sup>ice</sup>	2	Contingent	
1:35	Fence area SG33A	SSFA-3	0.5-1'	soil	PHAL	90825	MEDH <sup>ice</sup>	2	Contingent	
12:10	Fence Area SG32A	SSFA-4	0.5-1'	soil	PHAL	90826	MEDH <sup>ice</sup>	2	Contingent	
10:00	Fence Area SG23A	SSFA-5	3-3.5	soil	PHAL	90827	MEDH <sup>ice</sup>	2	Contingent	
2:55	Pipe through wall	SSPP-1	6.5-7	soil	PHAL	90828	MEDH <sup>ice</sup>	2		
11:00	Floor drain hydropros	SSFD-2	3-4	soil	PHAL	90829	MEDH <sup>ice</sup>	2		
1:45	Near drywell	SSDW-1	1.5-2	soil	PHAL	90830	MEDH <sup>ice</sup>	2		
3:10	Catch Basin	SSSD-1	5-5.5	soil	PHAL	90831	MEDH <sup>ice</sup>	2		
2:35	Dumpster Pad	SSDA-1	1.5-2	soil	PHAL	90832	MEDH <sup>ice</sup>	2		
RELINQUISHED BY: Cheryl Coffee					DATE: 10/16/98	TIME: 1755	RECEIVED BY: H. L. Scott		DATE: 10/16/98	TIME: 1755
RELINQUISHED BY:					DATE:	TIME:	RECEIVED BY:		DATE:	TIME:

## ANALYTICAL PARAMETER IDENTIFICATION KEY:

PHC: PETROLEUM HYDROCARBONS

VOC: VOLATILE ORGANICS BY GC/MS WITH LIBRARY SEARCH

PAH: POLYCYCLIC AROMATIC HYDROCARBONS IN BASE NEUTRAL SCAN WITH LIBRARY SEARCH

BN: BASE NEUTRALS WITH LIBRARY SEARCH

AE: ACID EXTRACTABLES WITH LIBRARY SEARCH

PPM: PRIORITY POLLUTANT METALS

PP+40: PRIORITY POLLUTANT PLUS FORTY PEAKS

CT = CEILING TILE

FT = FLOOR TILE

TSI = THERMAL SYSTEM INSULATION

TOTAL NO. CONTAINERS \_\_\_\_\_

THE WHITMAN COMPANIES INC  
44 WEST FERRIS STREET  
EAST BRUNSWICK, NJ 08816

306347



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SAMPLE DATE: 10/16/98

**SAMPLER(S):** Cheryl L. Coffee

[illegible]

PHC: PETROLEUM HYDROCARBONS  
VOC: VOLATILE ORGANICS BY GC/MS WITH LIBRARY SEARCH  
PAH: POLYCYCLIC AROMATIC HYDROCARBONS IN BASE NEUTRAL SCAN WITH LIBRARY SEARCH  
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TOTAL NO. CONTAINERS

**THE WHITMAN COMPANIES INC**  
**44 WEST FERRIS STREET**  
**EAST BRUNSWICK, NJ 08816**

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Edison, New Jersey 08817  
Phone: (732) 549-3900 Fax: (732) 549-3679

## PAGE OF

Name ( for report and invoice ) <b>Rob McGrady</b>						Samplers Name ( Printed ) _____															
Company Envirotech Research, Inc.						P.O. # _____								NJ: <input type="checkbox"/>		NY: <input type="checkbox"/>		Other: _____			
Address <b>777 New Durham Road</b> City State Zip <b>Edison NJ 08817</b> Phone Fax <b>732-549-3900 732-549-3679</b>						Analysis Turnaround Time Standard <input checked="" type="checkbox"/> Rush Charges Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input type="checkbox"/> _____				ANALYSIS REQUESTED ( ENTER "X" BELOW TO )										DATE USE ONLY Project No. Job No. Sample Number	
Sample Identification			Date	Time	Matrix	No. of Cont.	Grain Size														
<b>I279-90835</b>			<b>10/16/98</b>		<b>Soil</b>	<b>1</b>	<b>X</b>														
<b>I279-90836</b>			<b>10/16/98</b>		<b>Soil</b>	<b>1</b>	<b>X</b>														
<b>I279-90837</b>			<b>16-Oct</b>		<b>Soil</b>	<b>1</b>	<b>X</b>														
Preservation Used: 1 = ICE, 2 = HCl, 3 = H <sub>2</sub> SO <sub>4</sub> , 4 = HNO <sub>3</sub> , 5 = NaOH 6 = Other _____, 7 = Other _____								Soil:													
								Water:													

Special Instructions: \_\_\_\_\_ Water Metals Filtered (Yes/No)?

Relinquished by 1) 	Company Envirotech Research, Inc.	Date / Time 10-23-98	Received by 1) 	Company
Relinquished by 2)	Company	Date / Time 	Received by 2)	Company
Subcontracted to:  Melick-Tull				